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6 August 1991

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FCC MAIL BRANCH

Ms. Donna Searcy, Secretary
Federal Communications Commission
1919 M Street, NW
Washington, DC 20554

✓ RC 8/28

RE: Triad Family Network, Inc.
NEW FM, Winston Salem, NC
Channel 207C3, 6.92 kw H&V
BPED-910227MD

Honourable Secretary:

Transmitted herewith in triplicate is an original and two copies of an Engineering Amendment to be associated with the above captioned application. It is desired to address the concerns of Trang Nguyen as regards the mis-tabulation of certain directional antenna data and to supply Exhibit "H", the radiofrequency biohazard statement, which is apparently missing from the engineering copy.

Should there be inquiry please direct it to the undersigned.

Respectfully submitted



Phillip T. Watson
President

Triad Family Network, Incorporated

Aug 14 2 06 PM '91
FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554

30 JUL 1991

IN REPLY REFER TO:
8920-TDN

Triad Family Network, Inc.
1249 Trade Street
Winston-Salem, NC 27101

In re: NEW(FM), Winston-Salem, NC
Triad Family Network, Inc.
BPED-910227MD

Dear Applicant:

This is in reference to the above-captioned for a new non-commercial educational FM station located in Winston-Salem, North Carolina.

An engineering study revealed that there exists a discrepancy in the calculation of the relative field for the proposed directional antenna. Specifically, for the 90° and 270° bearings (Exhibit C, Figure 1), you listed an effective radiated power (ERP) of 3.4 dBkW with corresponding relative field value of 0.603 and an ERP of 2.511 watts. However, our staff has

Further action on the subject application will be withheld for a period of thirty days from the date of this letter to provide you an opportunity to reply. Failure to respond within this time period will result in the dismissal of the application pursuant to 47 C.F.R. § 73.3568(b). Please note that the amendment must be submitted in triplicate to the Secretary of the Commission and signed in the same manner as the original application.

Sincerely,

Dennis Williams

Dennis Williams
Chief, FM Branch
Audio Services Division
Mass Media Bureau

cc: York David Anthony

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JUL 31 1991
FM BRANCH

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

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In the matter of)
)
Triad Family Network, Inc.) File BPED-910227MD
NEW FM, Winston-Salem, North Carolina)
Channel 207C3, 6.92 kw H&V)

To: Chief, FM Branch
8920-TDN

ENGINEERING AMENDMENT

Comes now Triad Family Network, Incorporated, who seeks to address two minor matters in the above-captioned application. Specifically, this is in response to Trang Nguyen's letter of 30 July 1991 which requested that the relative field and power for the proposed directional antenna be corrected to conform with the requested dBkW, and that the NIER (non-ionizing radiation statement) be provided as apparently it was overlooked.

As for Exhibit "C" of the application above captioned (pages 15, 16) the corrected Exhibits have been provided.

As for the non-ionizing radiation biohazard, this was treated comprehensively in Exhibit H, Section III (pages 34 and 35) of the application. It is possible, however, that the duplicating contractor failed to insert these pages in the engineer's copy, and accordingly, the copies from our office original have been provided in this Exhibit.

It is believed that the application is now complete and correct in all respects and can resume processing at the pleasure of the Commission.

Respectfully submitted,

York David Anthony
Consulting Engineer
TRIAD FAMILY NETWORK, INC.

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EXHIBIT C
TRIAD FAMILY NETWORK, INCORPORATED
DIRECTIONAL ANTENNA TABULATED DATA

(FIGURE 1

Azumith	Relative field	Power in dBkW	Power in watts
0°	1.000	8.4	6 918
10°	0.988	8.3	6 760
20°	0.966	8.1	6 456
30°	1.000	8.4	6 918
40°	0.988	8.3	6 760
45°	0.955	8.0	6 309
50°	0.933	7.8	6 025
60°	0.861	7.1	5 128
70°	0.759	6.0	3 981
80°	0.653	4.7	2 951
90°	0.563 amend	3.4	2,190 ** amend
100°	0.468	1.8	1 513
110°	0.389	0.2	1 047
120°	0.309	-1.8	661
130°	0.260	-3.3	467
135°	0.248	-3.7	426
140°	0.240	-4.0	398
150°	0.234	-4.2	380
160°	0.240	-4.0	398
170°	0.248	-3.7	426
180°	0.254	-3.5	446
190°	0.248	-3.7	426
200°	0.240	-4.0	398
210°	0.234	-4.2	380
220°	0.240	-4.0	398
225°	0.248	-3.7	426
230°	0.260	-3.3	467
240°	0.309	-1.8	661
250°	0.389	0.2	1 047
260°	0.468	1.8	1 513
270°	0.563 ** amend	3.4	2,190 amend
280°	0.653	4.7	2 951
290°	0.759	6.0	3 981
300°	0.861	7.1	5 128
310°	0.933	7.8	6 025
315°	0.955	8.0	6 309
320°	0.988	8.3	6 760
330°	1.000	8.4	6 918
340°	0.966	8.1	6 456
350°	0.988	8.3	6 760

Pattern maxima:

0°	(1.000)
30°	(1.000)
180°	(0.254)
330°	(1.000)

Pattern minima:

20°	(0.966)
150°	(0.234)
210°	(0.234)
340°	(0.966)

Field gain 4.65

Note: The pattern is tabulated with the new requirements of 73.316(c)(2) with 0° corresponding to the maximum radiation of a symmetrical antenna. This antenna is actually oriented at 180° (see text).

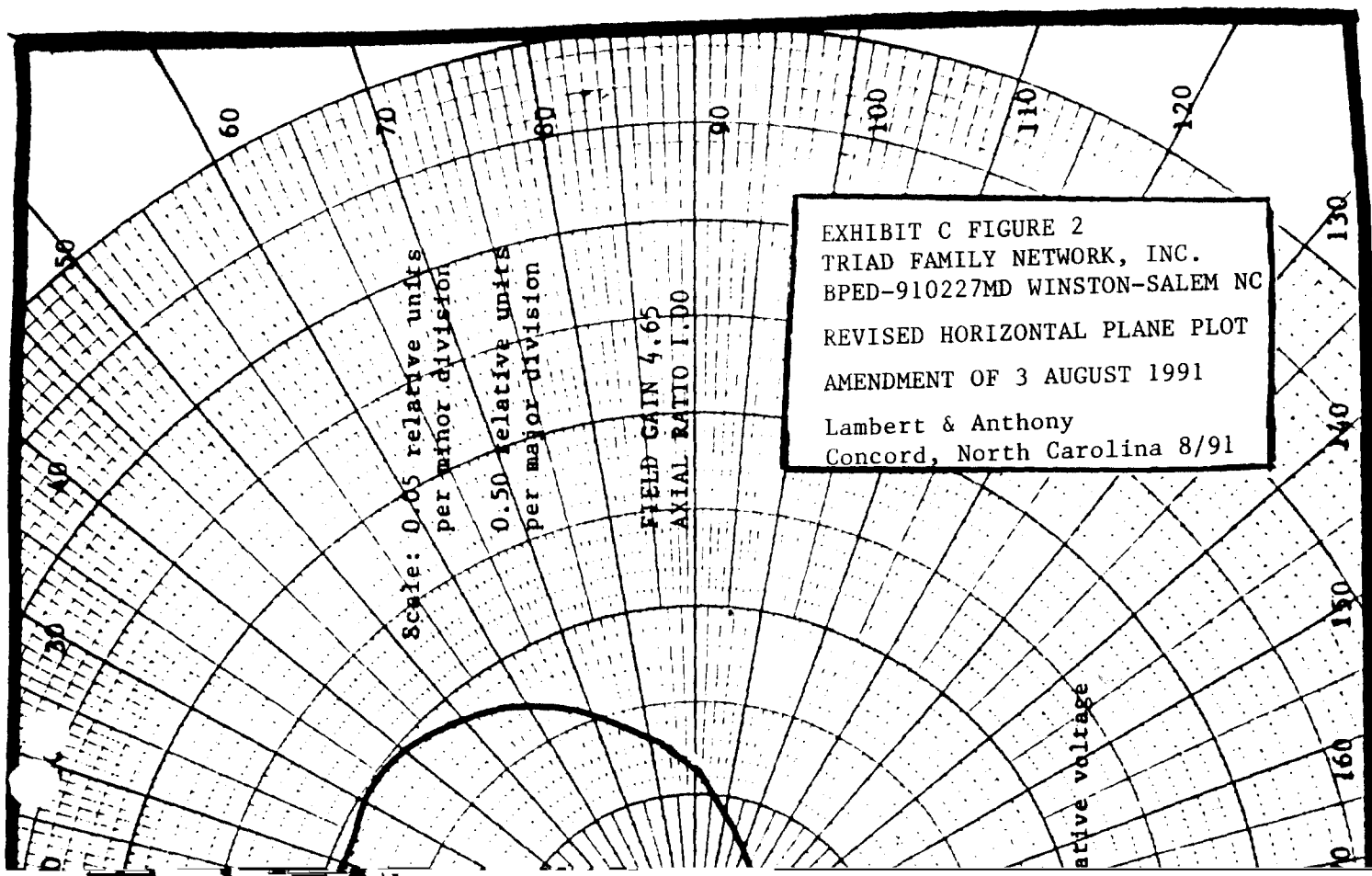


EXHIBIT C FIGURE 2
TRIAD FAMILY NETWORK, INC.
BPED-910227MD WINSTON-SALEM NC
REVISED HORIZONTAL PLANE PLOT
AMENDMENT OF 3 AUGUST 1991
Lambert & Anthony
Concord, North Carolina 8/91

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EXHIBIT H

TRIAD FAMILY NETWORK, INCORPORATED
NEW FM, WINSTON-SALEM, NORTH CAROLINA

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The following is the required statement with respect to Subpart I, Chapter 1, Title 47 C.F.R. ("The National Environmental Policy Act of 1969"), and the required blanketing interference and radiofrequency biohazard statement.

I. ENVIRONMENTAL IMPACT

The proposed operation of Triad Family Network, Incorporated is catagorically excluded from environmental processing under 47CFR 1.1306 of the Commission's Rules and Regulations. Triad Family Network intends to use an existing tower owned by WBFJ, and is thus exempt under note 1 of 1.1306. As shown below, there will be no radiofrequency biohazard and thus, a detailed discussion of exemption (re note 1 of 1.1306) is not required.

II. BLANKETING INTERFERENCE

The proposed operation will produce in excess of 115 dBuV for a distance of

0.3 kilometers from the transmitter site. This was computed using the method

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III. BIOHAZARD CALCULATION (continued)

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(The ** 0.5 part means take the square root of the entire fraction indicated). Working through this we find the critical distance to be 2,150 cm (21.5 meters) from the lowest bay of the transmitting antenna.

Referring to Exhibit B, the tower plan sketch, the radiation center is 38 meters above ground level, and the lowest bay of this antenna is 5 meters below that. This would place the biohazard at (38-5-21.5 m) or 11.5 meters above ground level, i.e. approximately 30 feet.

Thus, the biohazard does not reach areas which can be contacted by employees or the general public. The tower base is fenced and locked and warning signs will be posted wherever necessary or desirable.

In conclusion, this application satisfies the requirements of ANSI C95.1 with respect to the radiofrequency biohazard.